

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1325647

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCLSWWR 1MMS\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-72)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R70W2N902750DE010 3LSQCLSWWR 1MMS\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,  
3LSQCLSWWR 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

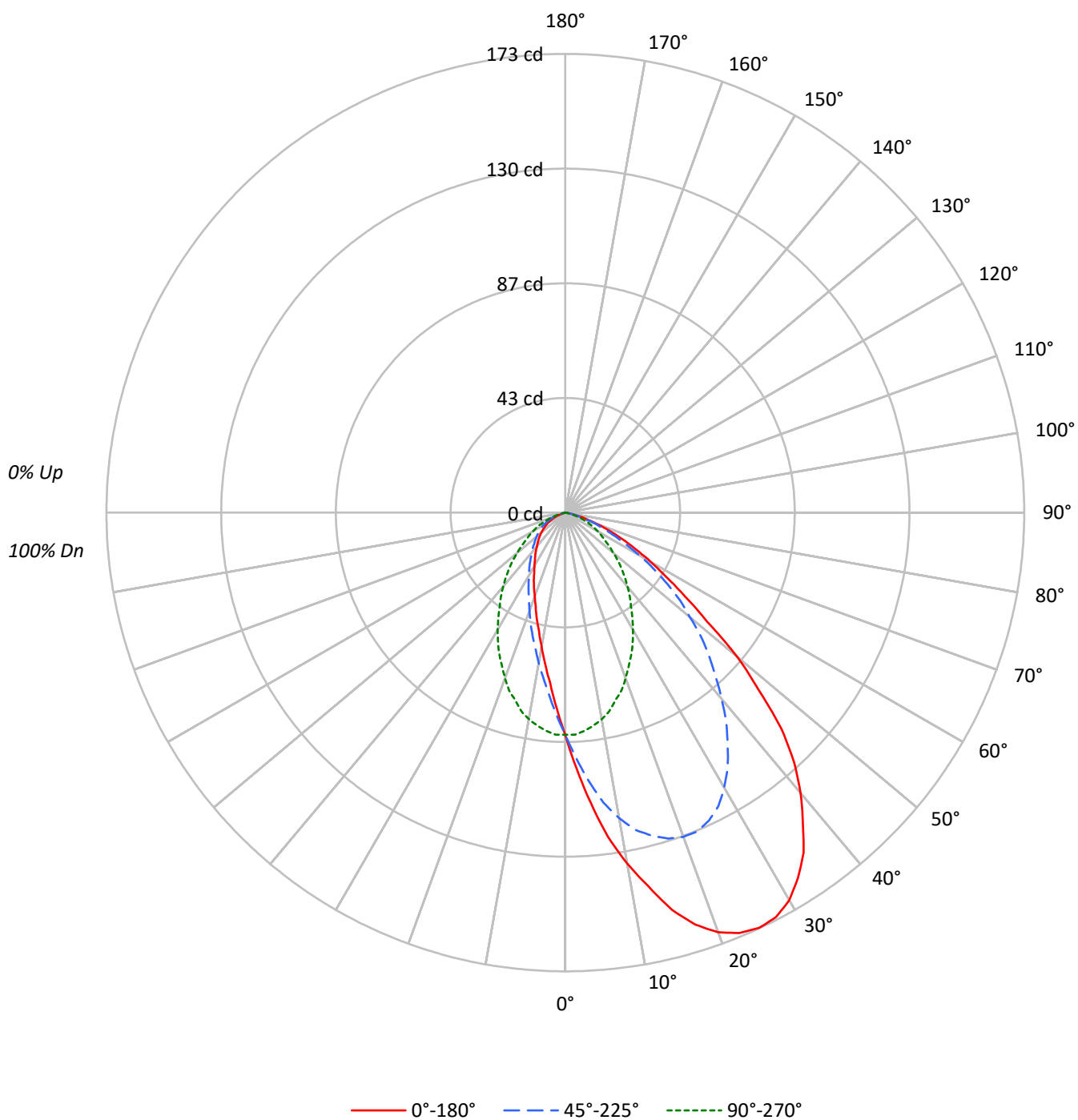
Lumens per Lamp: N/A  
Luminaire Lumens: 188.0 lumens  
Efficiency: N/A  
Efficacy: 31.9 lumens/watt  
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



TEST NUMBER: P1325647

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 89  |    |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |
| 3   | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 70  | 76  | 73  | 69  | 67  |    |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |
| 6   | 75  | 63  | 55  | 50  | 74  | 63  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 49  | 58  | 52  | 48  | 46  |    |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 42  |    |
| 8   | 66  | 53  | 45  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 38  |    |
| 9   | 62  | 49  | 41  | 36  | 60  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |
| 10  | 58  | 45  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   | 135°  | 180°  |
|-----|-------|-------|-------|-------|-------|
| 0°  | 14432 | 14432 | 14432 | 14432 | 14432 |
| 5°  | 19000 | 17565 | 14280 | 11963 | 11203 |
| 10° | 23504 | 20461 | 13833 | 10091 | 8989  |
| 15° | 27636 | 22483 | 13034 | 8523  | 7399  |
| 20° | 30864 | 23844 | 12169 | 7239  | 6158  |
| 25° | 32837 | 24342 | 11193 | 6233  | 5340  |
| 30° | 33569 | 23824 | 10142 | 5429  | 4634  |
| 35° | 32924 | 22433 | 9062  | 4899  | 4163  |
| 40° | 31025 | 20616 | 8183  | 4451  | 3732  |
| 45° | 28034 | 18681 | 7307  | 4043  | 3459  |
| 50° | 22667 | 16424 | 6350  | 3805  | 3188  |
| 55° | 16514 | 14112 | 5465  | 3573  | 2852  |
| 60° | 12813 | 11160 | 4891  | 3272  | 2583  |
| 65° | 9658  | 8069  | 4034  | 2893  | 1915  |
| 70° | 6748  | 5791  | 2971  | 2165  | 1209  |
| 75° | 3926  | 3394  | 1597  | 1065  | 266   |
| 80° | 793   | 1190  | 397   | 0     | 0     |
| 85° | 0     | 0     | 0     | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28034 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 8.2    | 4.4       |
| 10°-20°   | 24.4   | 13.0      |
| 20°-30°   | 36.8   | 19.6      |
| 30°-40°   | 40.9   | 21.8      |
| 40°-50°   | 36.3   | 19.3      |
| 50°-60°   | 24.6   | 13.1      |
| 60°-70°   | 12.9   | 6.9       |
| 70°-80°   | 3.7    | 2.0       |
| 80°-90°   | 0.1    | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 69.5   | 36.9      |
| 0°-40°    | 110.4  | 58.7      |
| 0°-60°    | 171.3  | 91.1      |
| 0°-90°    | 188.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 188.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 84  | 84  | 84  | 84   | 84   |      |
| 5°  | 110 | 102 | 83  | 69   | 65   | 11   |
| 15° | 155 | 126 | 73  | 48   | 42   | 44   |
| 25° | 173 | 128 | 59  | 33   | 28   | 79   |
| 35° | 157 | 107 | 43  | 23   | 20   | 97   |
| 45° | 115 | 77  | 30  | 17   | 14   | 87   |
| 55° | 55  | 47  | 18  | 12   | 10   | 51   |
| 65° | 24  | 20  | 10  | 7    | 5    | 24   |
| 75° | 6   | 5   | 2   | 2    | 0    | 7    |
| 85° | 0   | 0   | 0   | 0    | 0    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  |
| 2.5°  | 96.5  | 96.1  | 95.7  | 95.7  | 95.3  | 94.9  | 94.1  | 94.1  | 93.3  | 92.5  | 91.7  |
| 5°    | 109.9 | 109.9 | 109.9 | 108.7 | 108.7 | 107.1 | 106.4 | 104.8 | 103.2 | 101.6 | 99.6  |
| 7.5°  | 123.4 | 123.4 | 122.2 | 121.8 | 120.6 | 119.0 | 117.8 | 115.4 | 112.7 | 110.3 | 107.1 |
| 10°   | 134.4 | 134.4 | 133.2 | 132.4 | 130.1 | 128.5 | 126.1 | 123.4 | 120.6 | 117.0 | 113.1 |
| 12.5° | 144.3 | 144.7 | 143.1 | 141.5 | 139.2 | 136.8 | 133.6 | 130.1 | 126.5 | 122.6 | 117.4 |
| 15°   | 155.0 | 154.6 | 152.6 | 150.6 | 147.9 | 144.3 | 140.4 | 135.6 | 130.9 | 126.1 | 120.6 |
| 17.5° | 162.9 | 162.5 | 160.5 | 158.1 | 154.6 | 150.2 | 145.9 | 140.4 | 134.8 | 128.9 | 122.2 |
| 20°   | 168.4 | 168.0 | 166.1 | 162.9 | 159.3 | 154.6 | 149.4 | 143.1 | 137.2 | 130.1 | 122.6 |
| 22.5° | 171.6 | 171.2 | 168.8 | 166.1 | 161.7 | 156.6 | 151.0 | 144.3 | 137.6 | 130.1 | 121.8 |
| 25°   | 172.8 | 172.0 | 169.6 | 166.4 | 162.1 | 156.6 | 150.2 | 143.1 | 136.0 | 128.1 | 119.4 |
| 27.5° | 172.0 | 171.2 | 168.4 | 164.9 | 160.1 | 153.8 | 147.5 | 140.4 | 132.8 | 124.9 | 115.8 |
| 30°   | 168.8 | 167.6 | 165.3 | 161.7 | 156.6 | 150.2 | 143.5 | 136.0 | 128.1 | 119.8 | 110.7 |
| 32.5° | 163.3 | 162.5 | 160.1 | 156.2 | 151.0 | 144.7 | 138.0 | 130.1 | 122.2 | 113.9 | 104.8 |
| 35°   | 156.6 | 155.0 | 152.6 | 149.1 | 143.9 | 137.6 | 130.9 | 122.6 | 115.1 | 106.7 | 98.0  |
| 37.5° | 147.1 | 146.7 | 143.9 | 141.1 | 136.0 | 129.3 | 123.0 | 115.1 | 107.5 | 99.6  | 90.9  |
| 40°   | 138.0 | 137.2 | 134.8 | 131.7 | 126.5 | 120.6 | 113.9 | 106.7 | 99.2  | 91.7  | 83.8  |
| 42.5° | 127.7 | 126.5 | 124.9 | 121.8 | 117.0 | 111.1 | 104.8 | 97.7  | 90.9  | 83.8  | 76.7  |
| 45°   | 115.1 | 114.7 | 112.7 | 111.1 | 106.7 | 101.6 | 95.3  | 89.0  | 82.2  | 76.7  | 71.2  |
| 47.5° | 98.8  | 98.4  | 98.0  | 96.9  | 94.5  | 90.9  | 86.2  | 80.3  | 75.1  | 69.6  | 62.1  |
| 50°   | 84.6  | 84.2  | 83.4  | 83.0  | 81.0  | 79.1  | 75.5  | 72.0  | 67.6  | 61.3  | 55.4  |
| 52.5° | 67.2  | 67.6  | 68.8  | 69.2  | 68.8  | 67.2  | 65.6  | 64.4  | 58.5  | 54.6  | 49.0  |
| 55°   | 55.0  | 55.0  | 54.6  | 55.0  | 55.4  | 56.1  | 56.1  | 54.6  | 50.6  | 47.0  | 42.3  |
| 57.5° | 45.1  | 45.1  | 45.1  | 45.1  | 45.1  | 45.5  | 45.5  | 45.1  | 43.1  | 39.5  | 35.2  |
| 60°   | 37.2  | 36.8  | 36.8  | 37.2  | 36.8  | 36.8  | 37.2  | 37.2  | 35.2  | 32.4  | 28.5  |
| 62.5° | 30.0  | 30.0  | 30.0  | 29.7  | 29.7  | 30.0  | 30.0  | 29.7  | 28.1  | 25.3  | 22.5  |
| 65°   | 23.7  | 23.7  | 23.7  | 23.7  | 23.7  | 24.1  | 23.7  | 23.3  | 21.7  | 19.8  | 17.8  |
| 67.5° | 18.2  | 18.2  | 18.6  | 18.2  | 18.6  | 18.6  | 18.6  | 17.8  | 16.6  | 15.0  | 13.8  |
| 70°   | 13.4  | 13.4  | 13.4  | 13.8  | 14.2  | 14.2  | 13.8  | 13.0  | 12.3  | 11.5  | 10.3  |
| 72.5° | 9.1   | 9.5   | 9.5   | 9.5   | 9.9   | 9.9   | 9.5   | 9.1   | 8.7   | 7.9   | 7.5   |
| 75°   | 5.9   | 5.5   | 5.9   | 5.9   | 6.3   | 6.3   | 5.9   | 5.9   | 5.5   | 5.1   | 4.7   |
| 77.5° | 2.8   | 2.8   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   | 2.8   | 2.8   |
| 80°   | 0.8   | 0.8   | 0.8   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 82.5° | 0.0   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|------|--------|------|--------|------|
| 0°    | 83.8  | 83.8  | 83.8  | 83.8 | 83.8   | 83.8 | 83.8   | 83.8 |
| 2.5°  | 90.9  | 89.7  | 88.2  | 83.8 | 79.9   | 76.3 | 74.3   | 73.9 |
| 5°    | 97.3  | 95.7  | 91.7  | 82.6 | 75.1   | 69.2 | 65.6   | 64.8 |
| 7.5°  | 104.0 | 100.8 | 95.3  | 81.0 | 70.4   | 62.9 | 58.9   | 57.7 |
| 10°   | 109.1 | 105.2 | 97.7  | 79.1 | 65.6   | 57.7 | 53.0   | 51.4 |
| 12.5° | 112.7 | 107.9 | 99.6  | 76.7 | 61.7   | 52.2 | 47.4   | 45.9 |
| 15°   | 114.7 | 109.5 | 100.0 | 73.1 | 56.9   | 47.8 | 42.7   | 41.5 |
| 17.5° | 115.4 | 109.5 | 99.2  | 70.4 | 52.6   | 43.5 | 38.7   | 37.2 |
| 20°   | 115.1 | 107.9 | 97.3  | 66.4 | 48.6   | 39.5 | 34.8   | 33.6 |
| 22.5° | 113.5 | 105.6 | 94.1  | 62.5 | 44.7   | 35.6 | 31.6   | 30.8 |
| 25°   | 111.1 | 102.4 | 90.5  | 58.9 | 41.1   | 32.8 | 28.9   | 28.1 |
| 27.5° | 107.1 | 98.4  | 85.8  | 55.0 | 38.0   | 30.0 | 26.5   | 25.3 |
| 30°   | 102.0 | 93.7  | 81.0  | 51.0 | 34.8   | 27.3 | 24.1   | 23.3 |
| 32.5° | 96.5  | 88.2  | 76.3  | 47.0 | 32.0   | 25.3 | 22.1   | 21.3 |
| 35°   | 90.1  | 82.2  | 70.4  | 43.1 | 29.3   | 23.3 | 20.2   | 19.8 |
| 37.5° | 83.8  | 75.9  | 65.2  | 39.9 | 26.9   | 21.3 | 18.6   | 18.2 |
| 40°   | 76.7  | 70.4  | 62.5  | 36.4 | 24.9   | 19.8 | 17.4   | 16.6 |
| 42.5° | 72.4  | 63.7  | 53.8  | 33.2 | 22.9   | 18.2 | 15.8   | 15.4 |
| 45°   | 62.9  | 56.5  | 48.6  | 30.0 | 21.0   | 16.6 | 14.6   | 14.2 |
| 47.5° | 56.5  | 51.0  | 43.5  | 26.9 | 19.4   | 15.4 | 13.4   | 13.0 |
| 50°   | 50.2  | 45.1  | 38.0  | 23.7 | 17.8   | 14.2 | 12.3   | 11.9 |
| 52.5° | 43.9  | 38.7  | 32.4  | 21.0 | 15.8   | 13.0 | 11.1   | 10.7 |
| 55°   | 37.6  | 32.8  | 26.9  | 18.2 | 14.2   | 11.9 | 10.3   | 9.5  |
| 57.5° | 30.8  | 26.9  | 22.9  | 16.2 | 12.7   | 10.7 | 9.1    | 8.3  |
| 60°   | 24.9  | 22.5  | 19.4  | 14.2 | 11.1   | 9.5  | 7.9    | 7.5  |
| 62.5° | 20.2  | 18.2  | 16.2  | 12.3 | 9.9    | 8.3  | 7.1    | 5.9  |
| 65°   | 16.2  | 15.0  | 13.4  | 9.9  | 8.3    | 7.1  | 5.9    | 4.7  |
| 67.5° | 12.7  | 11.9  | 10.7  | 8.3  | 6.7    | 5.9  | 4.3    | 3.6  |
| 70°   | 9.9   | 9.1   | 8.3   | 5.9  | 5.1    | 4.3  | 3.2    | 2.4  |
| 72.5° | 7.1   | 6.3   | 5.9   | 4.3  | 3.6    | 3.2  | 2.0    | 1.2  |
| 75°   | 4.3   | 4.3   | 3.6   | 2.4  | 2.0    | 1.6  | 0.8    | 0.4  |
| 77.5° | 2.4   | 2.4   | 2.0   | 1.2  | 1.2    | 0.4  | 0.0    | 0.0  |
| 80°   | 1.2   | 0.8   | 0.8   | 0.4  | 0.4    | 0.0  | 0.0    | 0.0  |
| 82.5° | 0.4   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)